

CS 520 Advanced Programming Languages
Fall Semester, 2009
Doc 13 C++ Exam Topics
Oct 22, 2009

Exam Topics

pointers

Use of * and &

Heap verses stack memory allocation

new, delete

What happens when a variable goes out of scope

Arrays, Strings and pointers

Pointer arithmetic on arrays & Strings

Using [n] indexing on pointers

Parameter passing

Default parameters

Pass by value, pass by reference

function overloading

Rules on find correct function

const

variables, parameters, function members

Template functions

Exceptions

throwing, catching, in function signature

Reference types

Exam Topics - Classes

public, protected, private members

Inheritance

public, protected, private

Problems with multiple inheritance

Constructors & Destructors

initialization and assignment

copy constructors

Conversion of types

default

using = operator

Using constructor

Implementing operators

Const function members

Friends

Virtual, pointers and polymorphic behaviour

Template classes

Some C++ Questions from old Exams

<http://www.eli.sdsu.edu/courses/fall09/cs520/SampleC++Questions.pdf>